

RECEIVED
CENTRAL FAX CENTER

FEB 16 2006

Docket No.: 1315-044

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Dae-Kyu PARK et al.

U.S. Patent Application No. 10/657,169

Group Art Unit: 1725

Filed: September 9, 2003

Examiner: Lynne Renee EDMONDSON

For: MANUFACTURING METHOD OF PISTON FOR SWASH PLATE TYPE
COMPRESSOR WITH VARIABLE CAPACITY

RESPONSE TO NOTICE TO FILE CORRECTED APPLICATION PAPERS

Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450

This is in response to the Notice to File Corrected Application Papers mailed February 6, 2006, the period for response to which is set to expire on March 8, 2006. Submitted herewith are the following:

- Page 21 of the Specification filed September 9, 2003
- Copy of Notice to File Missing Parts

Please direct any inquiries in connection with this application directly to the undersigned.

Respectfully submitted,

LOWE HAUPTMAN & BERNER, LLP

Allan M. Lowe
Registration No. 19,641Randy Noranbrock
Registration No. 42,940LOWE HAUPTMAN & BERNER, LLP (22429)
1700 Diagonal Road, Suite 310
(703) 684-1111 AML/tal
Facsimile (703) 518-5499
February 16, 2006CERTIFICATION OF FACSIMILE TRANSMISSION
I HEREBY CERTIFY THAT THIS PAPER IS BEING FACSIMI-
LE TRANSMITTED TO THE PATENT AND TRADEMARK OFFICE
ON THE DATE SHOWN BELOWTracy A. Luke
TYPE OR PRINT NAME OF PERSON SIGNING CERTIFICATIONTracy A. Luke 2-16-06
SIGNATURE DATE

BEST AVAILABLE COPY

BEST AVAILABLE COPY

ascent and descent member 53. In this case, the support rollers 33 are elastically lifted or lowered to the extent of 'H' by the ascent and descent member 53 because there is a gap between the end of the supporting rod 53b and the front end of the wedge type
5 fixing member 74.

In this condition, as shown in FIG. 4b, when the wedge type fixing member 74 is advanced, the inclined front end of the wedge type fixing member 74 is in contact with the inclined end of the supporting rod 53b, and thereby, the ascent and descent
10 member 53 is not moved any more.

Meanwhile, as shown in FIG. 3, the table 36 mounted on the lower portion of the rotation supporting means 31 is connected to a transferring means 38 so as to be moved laterally within a predetermined distance in an axial direction of the
15 piston by a servo-motor 37. Thereby, when the servo-motor 37 is operated under a condition in which the probe 41 is inserted into the welding portion of the piston 20 supported on the rotation supporting means 31, the table 36 is moved within the predetermined distance. The servo-motor 37 for the transferring
20 means can be mounted on the side of table 36 or the welding means 40.

Hereinafter, referring to FIG. 6, a manufacturing method of a piston 20 by friction stir welding apparatus will be described.

**BEST AVAILABLE COPY****UNITED STATES PATENT AND TRADEMARK OFFICE**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Serial Number
10657169

Date Mailed
2/06/06

NOTICE TO FILE CORRECTED APPLICATION PAPERS***Notice of Allowance Mailed***

This application has been accorded an Allowance Date and is being prepared for issuance. The application, however, is incomplete for the reasons below.

Applicant is given 30 days from the mail date of this Notice within which to correct the informalities indicated below. A failure to reply will result in the application being ABANDONED. This period for reply is NOT extendable under 37 CFR 1.136 (a) or (b).

- ♦ Specification, page 21 is missing. Fax missing information to number below or e-mail.
- For status updates visit <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR System, contact the Electronic Business Center (EBC) toll free at 866-217-9197.

APPLICANT MUST SUPPLY MISSING INFORMATION WITHIN 30 DAYS OF THE MAIL DATE OF THIS NOTICE.

A copy of this notice MUST be returned with the reply. Please address response to Commissioner for Patents P.O. Box 1450
Alexandria, VA 22313-1450

Rori Burch
USPTO
Publishing Division
Rori.burch@uspto.gov
Fax (571) 273-9009
Fax (703) 308-6642
703-305-0333 ext.135 (V)